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Notice of Allowability	Application No.	Applicant(s)	
	10/604,834	CHEN ET AL.	
	Examiner	Art Unit	
	Khanh Tran	2611	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REPORTED OF THE OFFICE OF UPON PETITION OF THE OFFICE OFFIC	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due co	urse. THIS
1. \boxtimes This communication is responsive to <u>the Application filed on</u>	on 08/20/2003.		
2. The allowed claim(s) is/are <u>1-9</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Applicat	ion No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requi	irements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the such sheet. 	son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on	or in the Office action of the drawings in the front (not the b	ack) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			te the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	· 6. ☐ Interview Paper No 7. ⊠ Examiner	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allow	ance

Notice of Allowability

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Regarding claim 5, in line 5, "utilizing real" has been changed to -- utilizing real --.

Regarding claim 7, in line 1, "systemfor" has been changed to -- system for --; in line 8, "(FFT)moduleelectrically" has been changed to -- (FFT) module electrically --.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

2. Regarding claim 1, claim is allowable over prior art of record because claim is directed to a method for detecting a periodic signal in a communication system in which claim identifies the uniquely distinct features "quantizing at least two symbols of the frequency domain digitized signal to obtain quantization information" and "utilizing the quantization information to compute a detection metric for periodic signal detection".

The closest prior art, McClennon et al. U.S. Patent 6,721,355 B1 disclosing a method

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and apparatus for monitoring a data traffic to determine its periodicity, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

3. Regarding claim 7, claim is allowable over prior art of record because claim is directed to a periodic signal detection system for an OFDM or a DMT communication system in which claim identifies the uniquely distinct features of a periodic signal detector comprising "a quantizer electrically connected to the FFT module for quantizing symbols of the frequency domain digital signal of the FFT module; a sign correlator electrically connected to the quantizer for performing a predetermined correlation to generate a detection metric for periodic signal detection; and a sign memory electrically connected to the quantizer and the sign correlator for providing sign information obtained from the quantizer to the sign correlator". The closest prior art, McClennon et al. U.S. Patent 6,721,355 B1 disclosing a method and apparatus for monitoring a data traffic to determine its periodicity, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

McClennon et al. U.S. Patent 6,721,355 B1 discloses "Method And Apparatus For Adaptive Power Management In A Modem".

Jong U.S. Patent 6,408,696 B1 discloses "Coherent Phase Line Enhancer Spectral Analysis Technique".

Okuda U.S. Patent 6,735,303 B1 discloses "Periodic Signal Detector".

Huber et al. Jong U.S. Patent 6,408,696 B1 discloses "Coherent Phase Line Enhancer Spectral Analysis Technique".

Huber et al. U.S. Patent 6,618,452 B1 discloses "Burst Carrier Frequency Synchronization And Iterative Frequency-Domain Frame Synchronization For OFDM".

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 571-272-3007. The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCT

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Khanh Tran Primary Examiner, AU 2611